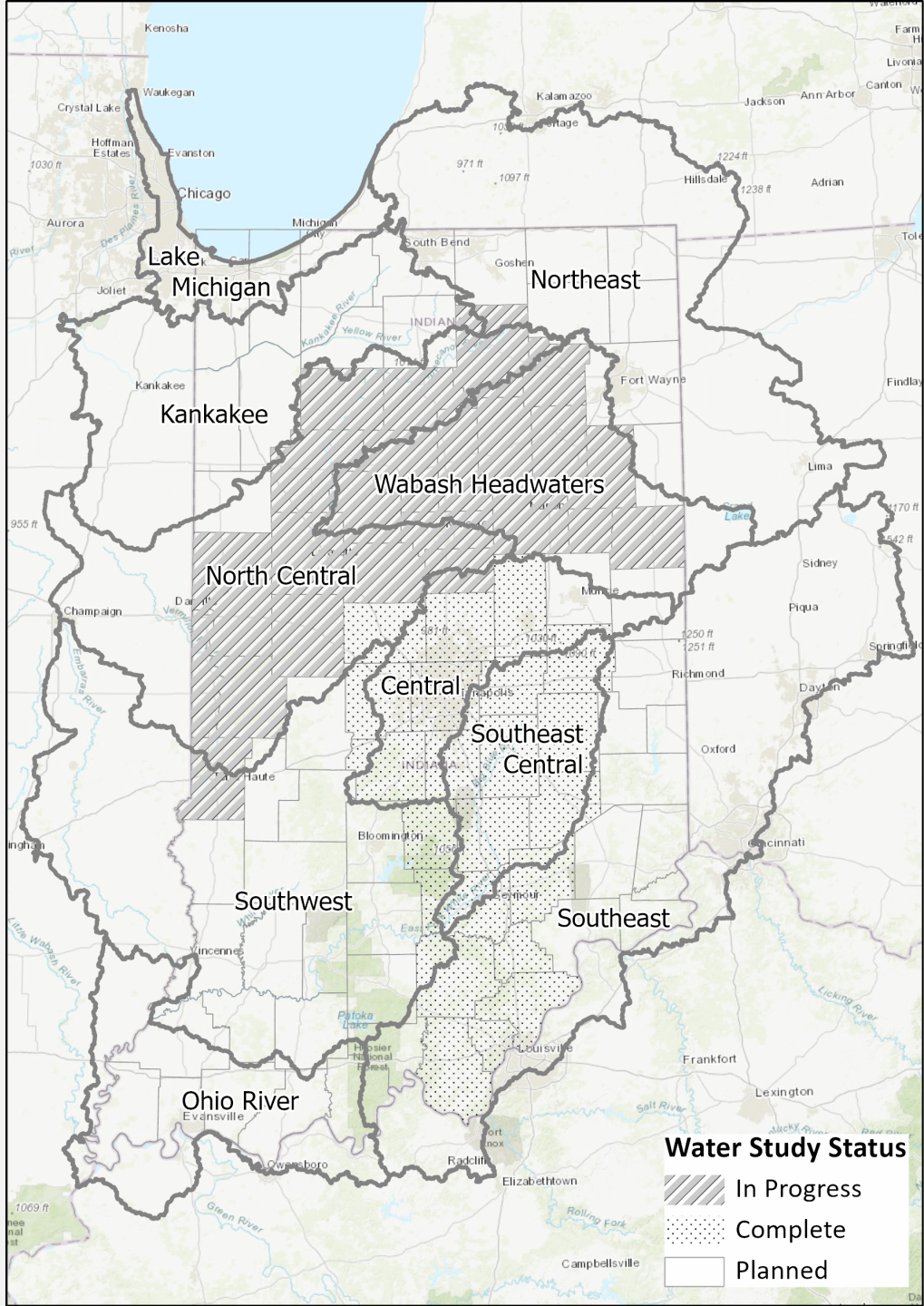
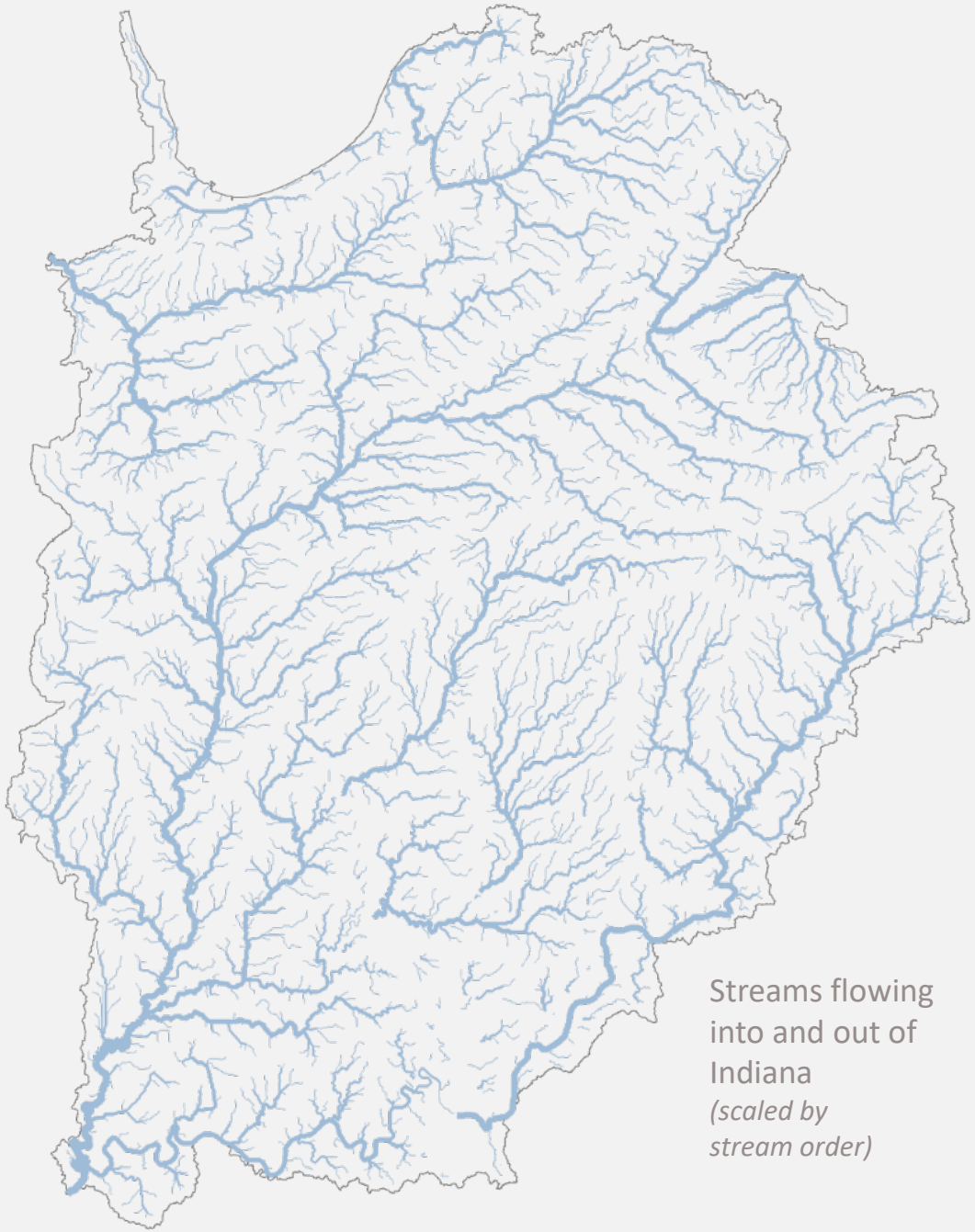
Indiana Finance Authority Regional Water Studies

- Statewide understanding of water resources and needs
- Standardized process / comparable across studies
- Data-driven and science-based
- Seek input from utilities, other water-use sectors, economic development interests, public officials, and the public
- Intended to support or underpin future regional water planning



Data-driven and Science-based

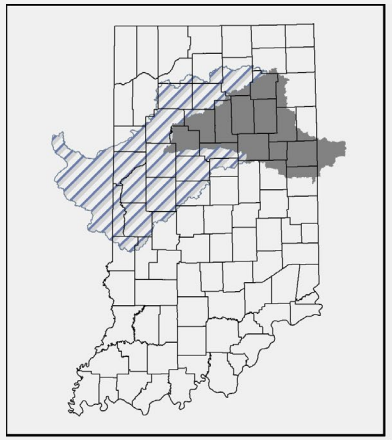
- Studies are supported by an Advisory Board with representatives from state and federal agencies, stakeholders from water-use sectors, and universities
- Recognize administrative boundaries, but primarily focused on hydrology (both surface and groundwater) at subbasin scale
- Incorporate region-specific land use, water use, and geological factors

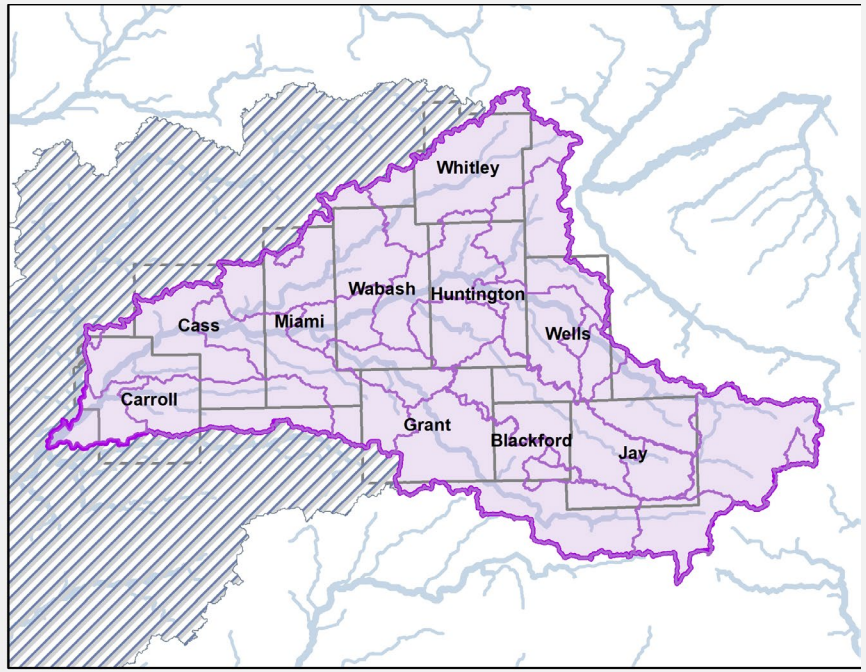


Streams flowing into and out of Indiana *(scaled by stream order)*

In-Progress Water Studies

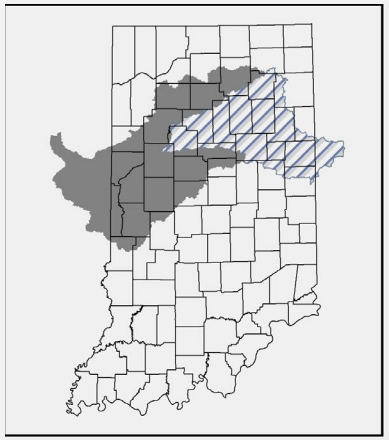
Jacobs Team: Wabash Headwaters (upstream)

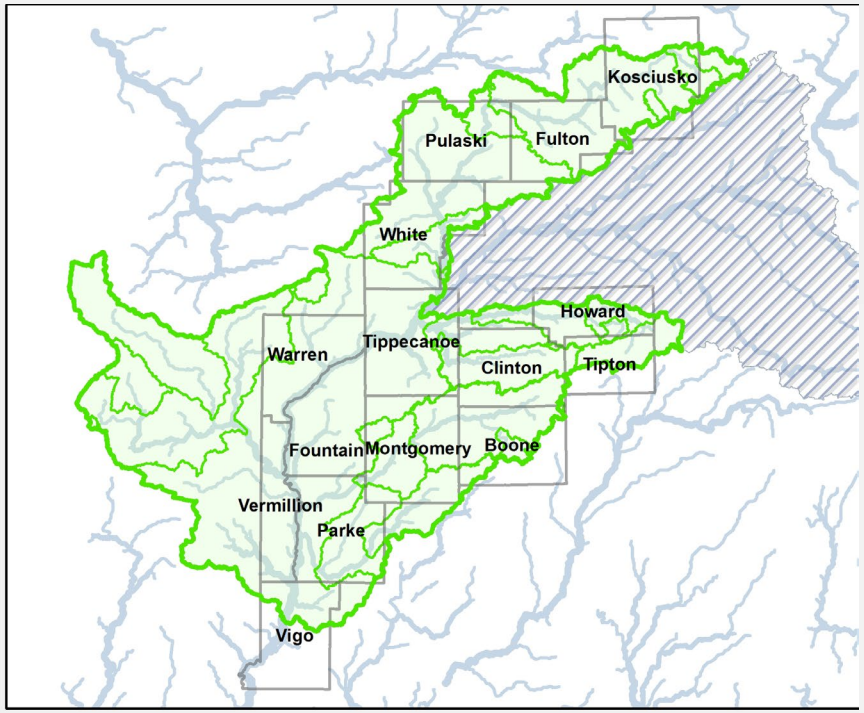




Wabash Headwaters water study counties
Wabash Headwaters water study subbasins
North Central Indiana water study

Stantec Team: North Central Indiana (downstream)

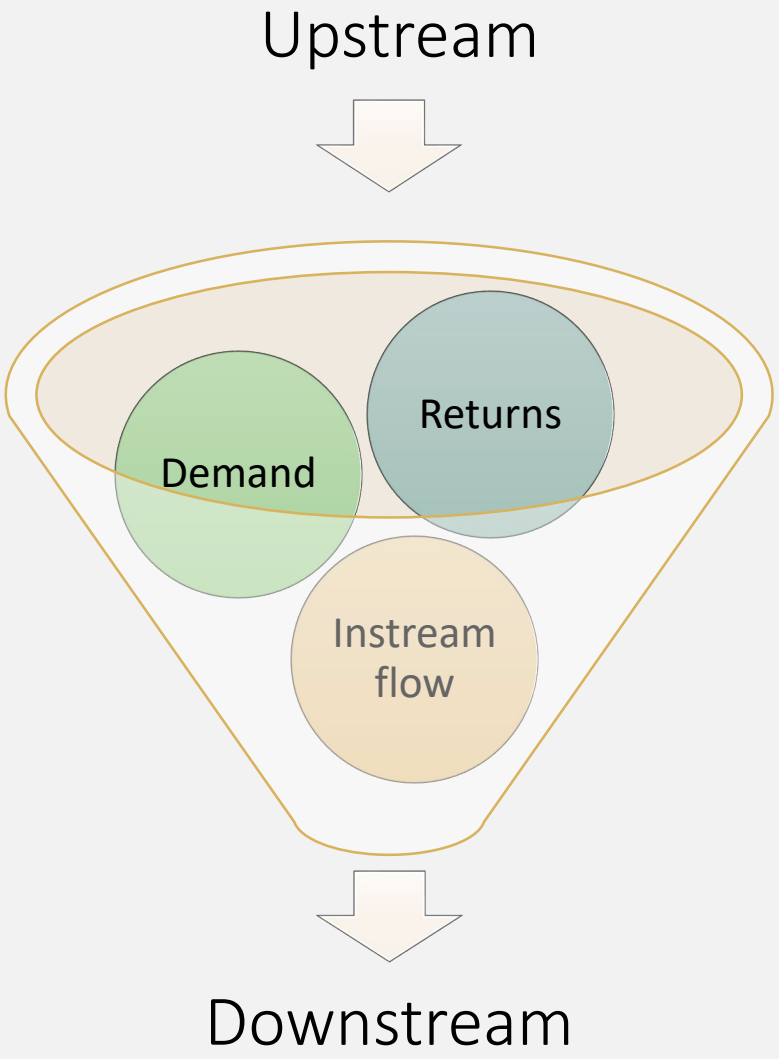




North Central Indiana water study counties
North Central Indiana water study subbasins
Wabash Headwaters water study

Water Studies: Scope of Work

- Phase 1: Fifty-year water-demand forecast
- Phase 2: Fifty-year water-supply availability forecast
- Phase 3: Comparison of water demand and availability forecasts to identify whether enough water is available to meet the needs in the region
- Recommended next steps



Overarching Approach in Regional Water Studies

Water balance

Natural water balance + anthropogenic alterations + climate change

Water Demand
(atmospheric, ecosystem demand + anthro and altered land cover needs)

Water Availability
(climate/precip/runoff; storage | bank and floodplain storage, aquifers)

Modified by:

- ❖ Anthropogenic withdrawals and inputs
- ❖ Climate change